Intel® Client System Setup Utility
User's Guide

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Introduction

The Client System Setup Utility (Client SSU) implements most System Setup Utility (SSU) features of a server from a client workstation.

The CSSU may communicate to the remote server using one of the following connection metods:

- A Windows[†] 2000 Advanced Server-compatible modem

- LAN (using LAN1 on the cc2300 & cc3300 servers).

SSU features are implemented in Client SSU with a set of plug-ins called Managers. In addition to managers, Client SSU has a phonebook that records the phone number, IP address, DNS name, and name of servers that Client SSU can manage remotely from a client workstation. Current Client SSU managers are:

- Multiboot Manager (MBM)
- Password Manager (PWM)
- System Event Log (SEL) Manager
- Sensor Data Record (SDR) Manager
- Field Replaceable Unit (FRU) Manager
- System Update Manager (SUM) (functionality is system dependent)
- Platform Event Manager (PEM)
- Configuration Save/Restore Manager (CSR)

These managers and other Client SSU features can be accessed from menus or toolbar icons. For additional information about the managers, see the help for each.

The specific functions provided available vary with individual platforms. Only a single instance of Client SSU can be running and only one connection can be made at a time.

Client SSU can be launched from the Program Group icon or from the Run command in the Windows[†] Start menu. When launched from the Program Group, the main Client SSU window displays and waits for user input. When launched from the Run command with the appropriate parameters, Client SSU attempts to connect to the server with the specified phone number, IP address, or DNS name. When the connection is established, the main Client SSU window displays with the connection information in the status bar. If the connection cannot be established, an error message displays, the main Client SSU window displays, and the application waits for user input.

When to Run the Client System Setup Utility

Use the Client SSU when you need to do any of these tasks remotely:
- Modify the server's boot device order or security settings
- Save the server's password and security configuration
- View or clear the SEL
- View the FRU information
- View the SDR information

- Update the system BIOS or controller firmware (depending on the server system)
- Configure platform event paging, BMC LAN alerts, or the emergency management port (EMP)
- Save or restore non-volatile system settings

Operation

To determine a system configuration, the Client SSU uses the following information from the server system:

- The baseboard CFG file
- Configuration registers
- CMOS and non-volatile storage

The Client SSU stores configuration values in non-volatile memory in the server. These values take effect when you boot the server.

The BIOS checks the values against the actual hardware configuration; if the values do not agree, the BIOS generates an error message. You must then run the Client SSU to specify the correct configuration before the server boots.

The Client SSU always includes a checksum with the configuration data, so the BIOS can detect any potential data corruption before the actual hardware configuration occurs.

When Client SSU connects to a server, it causes the server to reboot to the service partition.

Console Redirection Window

The console redirection window displays the server boot process. It appears when the connection to a server is by modem or by LAN. It cannot accept user input. Its purpose is to help users get more information during a server reboot to the service partition.

After the server completes the reboot to the service partition, the console redirection window closes.

Phonebook

The Client SSU shares a phonebook with other Intel® Server Control (ISC) components. You can use the phonebook to establish connections with supported platforms. Open the phonebook from the Server menu or with the phonebook icon on the toolbar.

Multiboot Manager

The Multiboot Manager (MBM) allows you to:

- Set boot device priority.
- Save boot device priority to non-volatile memory.

Only a single instance of the MBM can be running at one time. You can open the MBM from the Services menu or the MBM icon on the toolbar.

Starting the MBM Manager adds the MBM menu to the toolbar, which you can use to see the MBM properties or reload the MBM Manager.

Password Manager

The Password Manager (PWM) allows you to:

- Set the system administrator password.
- Set the user password.
- Set security options.

Only a single instance of the PWM may be used at a time. You can open the PWM from the Services menu or the PWM icon on the toolbar.

Starting the PWM Manager adds the PWM menu to the toolbar, which you can use to see the PWM properties or reload the PWM Manager.

System Event Log Manager

The System Event Log (SEL) Manager contains a sequential record of events that have occurred in the remote server. The SEL can help determine the cause of server system failures. With it you can:

- Examine SEL records via the Baseboard Management Controller (BMC)
- Examine SEL records by number, timestamp, generator ID, sensor, or event type
- Save SEL records to a file on the local or remote system
- Clear SEL records from the nonvolatile storage area on the server system

Only a single instance of the SEL may be used at a time. You can open the SEL from the Services menu or the SEL icon on the toolbar. For each entry, the SEL viewer displays:

- A record identifier
- Time stamp information
- The sensor type
- A generator identifier
- The sensor number
- An event description

You can sort the columns in the SEL Manager by clicking the column heading.

Starting the SEL Manager adds the SEL menu to the toolbar, which you can use to see the SEL properties or reload the SEL Manager.

Sensor Data Records Manager

The Sensor Data Records (SDR) Manager contains information recorded from each configured sensor in the managed server. Record data is displayed in hexadecimal or binary form. The contents of the SDR file can help determine the cause of server system failures.

Using the SDR tool, you can

- Examine Sensor Data Records
- Examine SDRs by Record type
- Save SDRs to a file on the local or remote system

Only a single instance of the SDR may be used at a time. You can open the SDR from the Services menu or the SDR icon on the toolbar. Information is displayed when a specific sensor type is selected in the SDR information tree.

Starting the SDR Manager adds the SDR menu to the toolbar, which you can use to see the SDR properties or reload the SDR Manager.

Field Replaceable Unit Manager

The Field Replaceable Unit (FRU) manager displays a hierarchical tree of FRU components, and detailed inventory information for each selected unit. Highlight a component in the tree with the mouse to see its associated inventory information. The information, based on the Intelligent Peripheral Management Interface (IPMI) specification, includes part numbers, serial numbers, manufacturer's names, version numbers, and asset tag numbers.

The contents of the FRU inventory files can help identify components that may be of interest while troubleshooting a system failure. Using the FRU, you can

- Examine individual FRU inventory areas
- Save FRU inventory information to a file on the local or remote system

Only a single instance of the FRU may be used at a time. You can open the FRU from the Services menu or the FRU icon on the toolbar.

Starting the FRU Manager adds the FRU menu to the toolbar, which you can use to see the FRU properties or reload the FRU Manager.

System Update Manager

The System Update Manager (SUM) allows users to update the system BIOS or firmware code for various controllers (front panel controller, baseboard management controller, power share controller, etc.) on a server.

The SUM provides the following operations (Note that some servers do not support all types of updates):

- Determines the current revision of system BIOS and firmware on server controllers.
- Updates BIOS and/or firmware.
  — Updates the system BIOS with a BIOS file (.BIO file).
  — Updates operational code for controllers using files composed of Hex Format code (.HEX file).
  — Updates the BIOS and/or firmware using a user-specified Update Information File (.UIF file). The .UIF file lists all the controllers to be updated, the type of update to be done, and the .BIO and .HEX files to be used for the update.
- For controller firmware, verifies the code currently loaded versus an external hex file.
  — Verifies the firmware for controllers using files composed of Hex Format code (.HEX file).
  — Verifies the firmware for controllers by using a user specified .UIF file.

Only a single instance of the SUM may be used at a time. You can open the SUM from the Services menu or the SUM icon on the toolbar.

Starting the SUM Manager adds the SUM menu to the toolbar, which you can use to see the SUM properties or reload the SUM Manager.

Platform Event Manager

The Platform Event Manager (PEM) provides an interface for configuring Platform Event Paging (PEP), BMC LAN configuration, and the Emergency Management Port (EMP) serial configuration.

Only a single instance of the PEM may be used at a time. You can open the PEM from the Services menu or the PEM icon on the toolbar.

Starting the PEM Manager adds the PEM menu to the toolbar, which you can use to see the PEM properties or reload the PEM Manager.

Configuration Save/Restore Manager

The Configuration Save/Restore (CSR) Manager provides a way to save the non-volatile system settings on a server to a file, and allows those settings to be written back into non-volatile storage on a server. These settings include the entire contents of CMOS and ESCD, EMP non-volatile settings, and event paging and filtering non-volatile settings.

Only a single instance of the CSR may be used at a time. You can open the CSR from the Services menu or the CSR icon on the toolbar.

Starting the CSR Manager adds the CSR menu to the toolbar, which you can use to see the CSR properties or reload the CSR Manager.